


2.2

not RCRA
RECEIVED

Handwritten notes and signatures in the top right corner.

 1110950003		POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT		I. IDENTIFICATION 01 STATE: <u>JA</u> 02 SITE NUMBER: <u>ILD 005471503</u>	
II. SITE NAME AND LOCATION					
01 SITE NAME (Legal, common, or descriptive name of site) <u>Woodstock Die Casting Inc.</u>		02 STREET, ROUTE NO., OR SPECIFIC LOCATION <u>555 Wheeler St.</u>			
03 CITY <u>Woodstock</u>		04 STATE <u>IL</u>	05 ZIP CODE <u>60098</u>	06 COUNTY <u>McHenry</u>	07 COUNTY CODE <u>111</u>
08 COORDINATES LATITUDE: <u>42 19 10.0</u> LONGITUDE: <u>88 26 46.0</u>		09 COUNTRY CODE <u>16</u>			
10 DIRECTIONS TO SITE (Starting from nearest public road) <u>Take 47 North to North street in Woodstock. Take North St. West to Clay St. Turn Clay St. North to 2nd street. Office is on corner of First Street and Wheeler St.</u>					
III. RESPONSIBLE PARTIES					
01 OWNER (if known) <u>Allied Information Systems</u>		02 STREET (Business, mailing, residential) <u>P.O. Box 2423 R</u>			
03 CITY <u>Morrisstown</u>		04 STATE <u>NJ</u>	05 ZIP CODE <u>07960</u>	06 TELEPHONE NUMBER <u>(201) 455-3441</u>	
07 OPERATOR (if known and different from owner)		08 STREET (Business, mailing, residential)			
09 CITY		10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER	
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER: _____ (Specify) <input type="checkbox"/> G. UNKNOWN					
14 OWNER/OPERATOR NOTIFICATION (in FILE (if not all that apply) <input checked="" type="checkbox"/> A. RCRA 3001 DATE RECEIVED: <u>12/14/82</u> MONTH DAY YEAR <input type="checkbox"/> B. UNCONTROLLED WASTE SITE (RCRA 103 c) DATE RECEIVED: _____ MONTH DAY YEAR <input type="checkbox"/> C. NONE					
IV. CHARACTERIZATION OF POTENTIAL HAZARD					
01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE: <u>06/16/83</u> MONTH DAY YEAR <input type="checkbox"/> NO		BY (Check all that apply) <input checked="" type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify) CONTRACTOR NAME(S): _____			
02 SITE STATUS (Check one) <input checked="" type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION BEGINNING YEAR: <u>1954</u> ENDING YEAR: _____ <input type="checkbox"/> UNKNOWN			
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED <u>Sludge (toxic)</u> <u>Solvents (toxic, flammable, reactive)</u> <u>Inorganic chemicals (toxic, reactive)</u>					
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION <u>Groundwater (Population, Environment)</u> <u>Surface water (Population, Environment)</u>					
V. PRIORITY ASSESSMENT					
01 PRIORITY FOR INSPECTION (Check one if high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents) <input checked="" type="checkbox"/> A. HIGH (Inspection required promptly) <input type="checkbox"/> B. MEDIUM (Inspection required) <input type="checkbox"/> C. LOW (Inspection on time available basis) <input type="checkbox"/> D. NONE (No further action needed, complete current disposition items)					
VI. INFORMATION AVAILABLE FROM					
01 CONTACT <u>Gregory W. Dunn</u>		02 OF (Agency/Organization) <u>Woodstock Die Casting</u>		03 TELEPHONE NUMBER <u>1815 338-0700</u>	
04 PERSON RESPONSIBLE FOR ASSESSMENT <u>Gregory W. Dunn</u>		05 AGENCY <u>LPL</u>	06 ORGANIZATION <u>RPMs</u>	07 TELEPHONE NUMBER <u>(217) 785-6872</u>	08 DATE <u>01/02/87</u> MONTH DAY YEAR

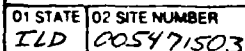
EPA Region 5 Records Ctr.

350447

EPA FORM 2070-12 (7/81) 12/83

PLANNING AND CONTRACTS
MANAGEMENT UNIT

000515



<input checked="" type="checkbox"/> A TOXIC	<input type="checkbox"/> E SOLUBLE	<input type="checkbox"/> I HIGHLY VOLATILE
<input checked="" type="checkbox"/> B CORROSIVE	<input type="checkbox"/> F INFECTIOUS	<input type="checkbox"/> J EXPLOSIVE
<input type="checkbox"/> C RADIOACTIVE	<input checked="" type="checkbox"/> G FLAMMABLE	<input checked="" type="checkbox"/> K REACTIVE
<input type="checkbox"/> D PERSISTENT	<input checked="" type="checkbox"/> H IGNITABLE	<input type="checkbox"/> L INCOMPATIBLE
		<input type="checkbox"/> M NOT APPLICABLE



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
ILD 005471503

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A GROUNDWATER CONTAMINATION 02 ☒ OBSERVED (DATE 1986) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED ~12,800 04 NARRATIVE DESCRIPTION
An Environmental study of the plant revealed groundwater contamination of the shallow aquifer in the area. The contaminants include volatile organics, lead and chromium.

01 ☒ B SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED ~12,000 04 NARRATIVE DESCRIPTION
There has been no direct spill into Nippersink Creek (tributary of the Fox River) but on different dates, excursions from their NPDES permit have occurred. These excursions occurred for nickel, phosphate and cyanide. NPDES Permit # IL 0003903

01 ☒ C CONTAMINATION OF AIR 02 ☒ OBSERVED (DATE July 2, 1974) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED N/A 04 NARRATIVE DESCRIPTION
On July 2, 1974 a solvent odor was detected coming from the plant. No complaints from area residents saying odor doesn't bother them. Also on July 10, 1974 plant was cited for excessive particulate emissions from four uncontrolled aluminum reverberatory furnaces. Air Permit # 111095AAF

01 ☐ D FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

01 ☐ E DIRECT CONTACT 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

01 ☒ F CONTAMINATION OF SOIL 02 ☒ OBSERVED (DATE 1986) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED N/A 04 NARRATIVE DESCRIPTION
Soil analyses show high levels of heavy metals and certain Volatile Organic Chemicals. The area that revealed high levels of heavy metals has been excavated and revegetated. Soil contamination still may exist.

01 ☒ G DRINKING WATER CONTAMINATION 02 ☒ OBSERVED (DATE 1986) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED ~12,800 04 NARRATIVE DESCRIPTION
Two of five Woodstock City wells are located immediately west of the plant. The other three wells are located 8 to 10 blocks North-Northeast of the plant. Contaminants were found in three of the wells but were below standards.

01 ☐ H WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ I POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE ILL 02 SITE NUMBER 005471503

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (include name(s) of species)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES
(Soils runoff standing liquids leaking drums)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED _____

04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

15 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

16. TOTAL POPULATION POTENTIALLY AFFECTED: ~ 12,800

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

ILLinois EPA Land Files
ILLinois EPA Air Files
ILLinois EPA water Files

Executive Summary

Woodstock Die Casting, Inc. is located in the NW 1/4 of the NE 1/4 of the SW 1/4, Section 5, Township 4 North, Range 7 East in McHenry County, Illinois. The facility is situated between West First Street on the north, Bartlett Street on the south, Clay Street on the east, and the Chicago & Northwestern Railroad on the west. Woodstock Die Casting is involved in the manufacturing, machining and finishing of aluminum and zinc die castings. The finishing process includes polishing, buffing, plating and painting operations. The facility is owned by Woodstock Industries Corporation, who recently acquired the plant from Allied Chemical Corporation.

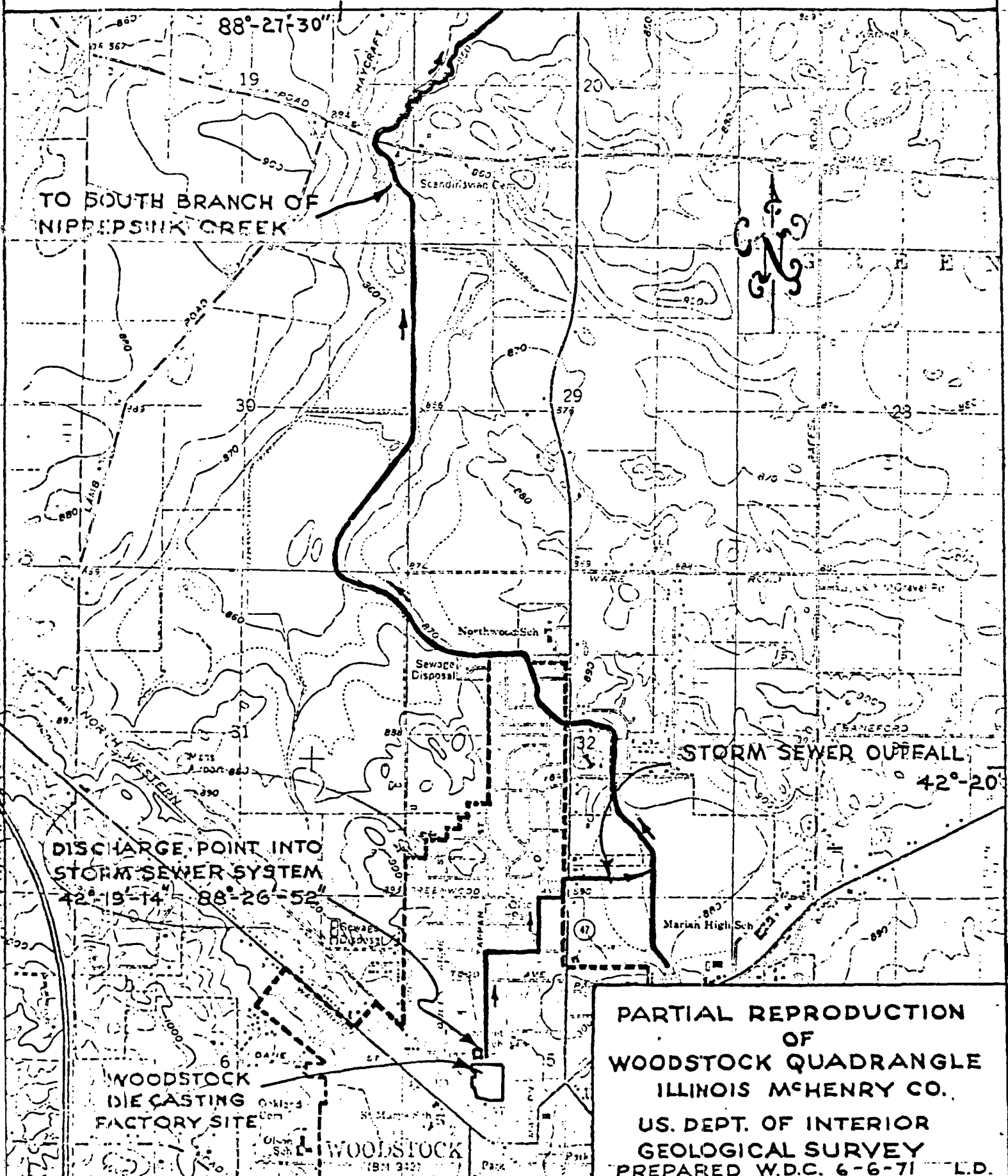
The facility has an NPDES permit (#IL0033863) covering their whole plant, including: a chlorination system for cyanide, clarifier and thickener, oily waste separator, and a sulfonation system for chromium. The discharge is regulated by the permit and sample analyses are due every month from the discharge. The plant also has an Air permit (#111095AAF) for their waste treatment facility, general machining, painting, die casting and plating operations. The emissions from these operations are regulated by the Illinois Division of Air Pollution Control. Two other regulated units are a storage tank for spent solvents and a drum storage area. Hazardous wastes managed at the site are final waste treatment sludge, filter residues, cyanide destruction residues, spent solvents and tramp oils.

A Summary of Investigation and Workplan was just completed for Woodstock Die Casting by a private firm. Results show soil contamination by heavy metal and certain Volatile Organic Chemicals (VOC's). The area of excessive heavy metal contamination has been excavated and revegetated. Groundwater monitor wells showed high amounts of VOC's, Lead and Chromium in on-site wells. Off-site wells show concentrations of contaminants but are below the maximum concentration level (MCL). Surface water contamination has been recorded in the early 1960's from the plant. Discharges into nearby Nippersink Creek caused the water to turn various colors. These complaints have stopped since being observed and have been remedied.

The potential pathway for soil and groundwater contamination exists. Discharge to surface water is regulated by the NPDES permit so excursions to the discharge are recorded. Due to the fact that Woodstock City public wells are all within ten blocks of the site, a high priority is recommended. Continued analysis of groundwater wells and additional soil sampling is suggested. A groundwater interceptor is proposed by the private firm to collect and treat any contaminated water.

GD:rd1167g/85

ATTACHMENT
WOODSTOCK DIE CASTING
EPA ID No. ILD 005471503



PARTIAL REPRODUCTION
OF
WOODSTOCK QUADRANGLE
ILLINOIS McHENRY CO.
U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
PREPARED W.D.C. 6-6-71 L.D.

Narrative

Facility:

Woodstock Die Casting, a division of Allied Information Systems (formerly an Eltra Company), produces and finishes zinc die castings. The operation consists of die casting, machining, and finishing by buffing, polishing, electroplating, and painting. It generates approximately 0.4 MGD of wastewater which is treated on site and discharged to Nippersink Creek under NPDES #IL 0033863.

The wastewater is generated from die casting machine leakage, metal cleaning and activating, plating, cooling tower blowdown, and floor drains. The make up for the system is municipal water. The primary pollutants are synthetic oils, cyanide, chromium, copper, nickel, zinc, phosphorous, alkaline rinses, acid rinses, and cooling system blowdowns. Pollution control is achieved through recycling, pre-treatment, and treatment of the various waste streams. The following are general descriptions of the various systems. Although none of the individual waste streams is monitored for flow, flow estimates are included as reported by the facility representative.

Oily Waste Treatment

The die casting operation does not generate a process wastewater, but normal operations entail leaks of lubrication greases, oils, and non-contact cooling water. All oils are synthetic, water soluble based oils. Also, there is drag out spillage from the quench pit, and wash-water from floor cleaning. These wastes combine to produce an actual flow of 10 gpm (design flow is 20 gpm) which is treated in a 55,000 gallon holding tank by aeration augmented with a liquid bacterial solution. The effluent then flows to the general sump and the main treatment plant. The sludge and floating oil accumulated in the tank are removed by a licensed hauler (Frink's Industrial Service) on an "as needed" basis, generally twice per year.

The oily waste tank was originally designed as a separation unit, but because BOD concentrations in the final effluent often exceeded the NPDES daily limits, the unit was modified to an aeration tank in the summer of 1981. This modification was reported to IEPA-Compliance Assurance Section in a WDC letter of August 17, 1981. The aeration is provided by perforated air lines on the floor of the tank. Although no performance data has been collected, the operator feels that the modification has been successful because the final effluent BOD's have been reduced and the surface oil layer has dissipated substantially. The effectiveness of this modification may be due in part to the fact that the glycol based oils are soluble and the detention time created by the present 10 gallon per minute flow rate is approximately 70 hours.

Chromium Recycle and Treatment

The chromium rinse waters are continuously passed through one of two sets of anionic and cationic exchange resins which produce an effluent suitable for recycling as rinse water (5% TDS). The resins exist in duplicate to allow continuous operation while backwashing. Non-chromium metal ions and chromium ions are tapped in the resins and are separable due to differences in backwash retention times. The clean chromium backwash in the form of dilute chromic acid is passed to an evaporator for concentration and reuse. The other backwash is passed to a sulfonator which reduces hexavalent chromium to trivalent chromium. The trivalent chromium is amenable to precipitation by lime as a trivalent hydroxide. This effluent is passed to the general sump and the main treatment plant for precipitation.

Because chlorine can reoxidize the trivalent chromium to hexavalent chromium, operating personnel cannot apply excess chlorine to the cyanide destruction process. If excess chlorine is used, the mixing of the two effluents in the general sump can cause reoxidation of CR $+3$ to CR $+6$ and the CR $+6$ can pass through the precipitation reaction to the final effluent, resulting in NPDES excursions. Operating personnel monitor the processes to prevent the occurrence of reoxidation.

Cyanide Recycle and Treatment

Cyanide is present in the copper plating bath as a metal complexing agent which helps provide an adequate reservoir of copper ions for plating. Because the solution is continually recharged, the copper cyanide plating bath does not require treatment, but the rinses which follow do require treatment. The rinse water is continuously passed to a surge basin where high pH is maintained to control cyanide fumes. It is then pumped to a quadruple effect evaporator at 30 to 40 gallons per minute which condenses the distillate for reuse as rinse water. The concentrated copper cyanide solution is stored for reuse in the plating baths.

Cyanide is also present in the sodium cyanide bath used to reactivate nickel surfaces prior to copper plating. The rinse water following reactivation is not suitable for recycling due to the presence of nickel from the dissolution of reactivated parts. It is treated by a cyanide destruction process. Cyanide must be destroyed not only because it is toxic, but also because it can prevent effective precipitation of copper and zinc as hydroxides. The cyanide destruction process consists of raising the pH to 11.0 with caustic, and then adding gaseous chlorine in 2 stages to convert the cyanide to nitrogen

and carbon dioxide. This process operates continuously at about 10 gallons per minute. This flow also includes any cyanide spillage which may occur. The treated effluent then passes to the general sump and the main treatment plant.

Acid and Alkali Mix

The acid and alkali rinse waters are mixed in a neutralization tank and are then passed to the general sump. These rinse waters make up approximately 80% of the total wastewater volume at Woodstock Die Casting.

Other Metals

The removal of the metal ions of copper, zinc, and trivalent chromium is carried out in the main treatment plant by lime precipitation. No pre-treatment is installed strictly for copper or zinc. At a pH of 8.5 in the absence of interfering chemicals, the hydroxides of these metals are highly insoluble and precipitate readily.

Main Treatment Plant

The main treatment plant is a 1.44 MGD DMF chemical precipitation system with tertiary filtration. The treatment units consist of a neutralization tank, a reactivator clarifier, tertiary mixed-media filters, a sludge thickener, and a vacuum filter. The neutralization tank is not in use because the pH of the wastewater in the general sump remains in a generally neutral range, and the pH is adjusted to 8.5 by lime addition prior to clarification. The lime is added to precipitate the metal ions as metal-hydroxide complexes. Alum is added to promote flocculation and to remove phosphorous. The lime-alum slurry enters the circular clarifier at the center, flows down to bottom and filters up through the sludge blanket. The effluent is then pumped to the multi-media filters which function primarily as back-up units to the clarifier. Following filtration, the effluent is discharged to Nippersink Creek via a city-owned storm sewer.

The clarifier sludge is pumped to the sludge thickener and then to the vacuum filter. The sludge cake is shipped to an Agency approved landfill as a special waste under Land Pollution Control Generator Number 1110950001 G.

JWR:wn

RECEIVED
MAR 4 '83
SPRINGFIELD
0.17

GENERAL TABLET ITEMS	<div style="text-align: center;"> U.S. ENVIRONMENTAL PROTECTION AGENCY GENERAL INFORMATION <i>Consolidated Permits Program</i> <i>(Read the "General Instructions" before starting.)</i> </div>	I. EPA I.D. NUMBER <div style="border: 1px solid black; padding: 2px;"> F I L D 0 0 5 4 7 1 5 0 3 </div>
II. EPA I.D. NUMBER	ILD 005471503	GENERAL INSTRUCTIONS If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.
III. FACILITY NAME	WOODSTOCK DIE CASTING	
V. FACILITY MAILING ADDRESS	555 Wheeler Street	
VI. FACILITY LOCATION	Woodstock, Illinois 60098	

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any question, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in this box in the third column. If the supplemental form is attached, if you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK "X"			SPECIFIC QUESTIONS	MARK "X"		
	YES	NO	FORM ATTACHED		YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X		B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)	X*		**	D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X			F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY

1	SKIP	WOODSTOCK DIE CASTING
---	------	-----------------------

IV. FACILITY CONTACT

A. NAME & TITLE (last, first, & title)	B. PHONE (area code & no.)
2 GAUDIELLO MIKE DIR TECH SERV	815 338 0700

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX			
3 5 5 5 WHEELER STREET			
B. CITY OR TOWN		C. STATE	D. ZIP CODE
4 WOODSTOCK		IL	6 0 0 9 8

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER			
5 5 5 5 WHEELER STREET			
B. COUNTY NAME		C. CITY OR TOWN	D. STATE
McHENRY		WOODSTOCK	IL
E. ZIP CODE		F. COUNTY CODE (if known)	
6 0 0 9 8		1 1 1	

FORM 3 EPA HAZARDOUS WASTE PERMIT APPLICATION
Consolidated Permits Program
(This information is required under Section 3005 of RCRA.)

1. EPA I.D. NUMBER
F I L D 0 0 5 4 7 1 5 6 3 3

FOR OFFICIAL USE ONLY

APPLICATION APPROVED DATE RECEIVED (yr, mo, & day)

COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

☒ 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)

☐ 2. NEW FACILITY (Complete item below.)

FOR EXISTING FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)

FOR NEW FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION (place an "X" below and complete item 1 above)

☐ 1. FACILITY HAS INTERIM STATUS

☐ 2. FACILITY HAS A RCRA PERMIT

III. PROCESSES - CODES AND DESIGN CAPACITIES

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided on the form (Item III-C).

B. PROCESS DESIGN CAPACITY - For each code entered in column A enter the capacity of the process.

1. AMOUNT - Enter the amount.

2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D09	GALLONS OR LITERS
LANDFILL	D80	ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER
LAND APPLICATION	D81	ACRES OR HECTARES
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G	LITERS PER DAY	V	ACRE-FEET	A
LITERS	L	TONS PER HOUR	D	HECTARE-METER	F
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	S
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		

EXAMPLE FOR COMPLETING ITEM III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

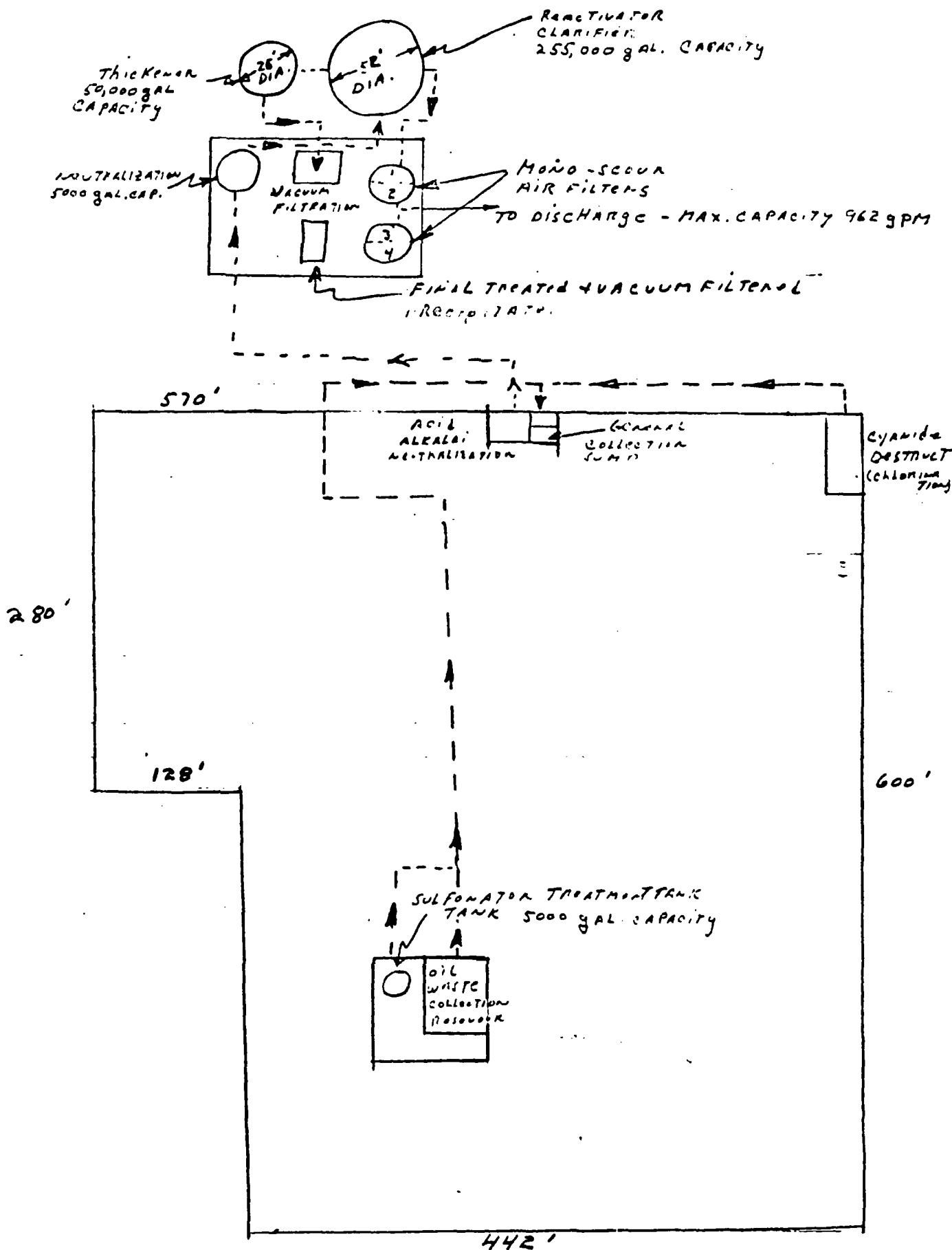
DUP

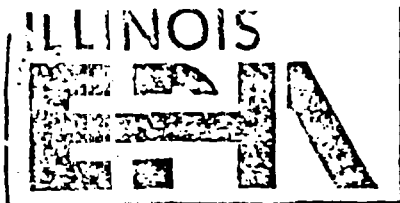
LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY		FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY		FOR OFFICIAL USE ONLY
		1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)				1. AMOUNT	2. UNIT OF MEASURE (enter code)	
X-1	S02	600	G		5	T01	55000	U	
X-2	T01	20	E		6				
1	T01	999,999,999 57,600,000	U		7				
2	T01	1,400,000	U		8				
3	T01	72,000,000	U		9				
4	T01	1,000,000	U		10				

PA I.D. NUMBER (enter from page 1)													FOR OFFICIAL USE ONLY													
W I L D 0 0 5 4 7 1 5 0 3 3 1													W DUP 3 2 DUP													
IV. DESCRIPTION OF HAZARDOUS WASTES (continued)																										
LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)			B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES																				
	1. PROCESS CODES (enter)					2. PROCESS DESCRIPTION (if a code is not entered in D(1))																				
1	F	0	3	6000000	G	S	0	1																		
2	F	0	5	6000000	G	S	0	1																		
3	F	0	6	126.900	T	S	0	1	T	0	1															
4	F	0	7	*																						
5	F	0	8	3000000	P	S	0	1	T	0	1															
6																										
7																										
8																										
9																										
10																										
11																										
12																										
13																										
14																										
15																										
16																										
17																										
18																										
19																										
20																										
21																										
22																										
23																										
24																										
25																										
26																										

WOODSTOCK DIE CASTING
EPA I.D. No. ILD005471503

105





Illinois Environmental Protection Agency (File) 105

2200 Churchill Road, Springfield, Illinois 62706

ATTACHMENT
EPA ID No. ILD 005471503

217/782-6760

702083

WOODSTOCK DIE CASTING

555 WHEELER ST

WOODSTOCK

IL

60098

RECEIVED

1990

WOODSTOCK DIE CASTING

Dear Special Waste Generator:

Pursuant to HB 453, and the Hazardous Waste criteria developed by the IEPA thereunder, the special waste which you generate and which is permitted for disposal under supplemental permit # 782033 is considered nonhazardous. Therefore, this waste is not subject to the fee of \$0.01/gal (or \$2.02/cubic yard).

However, this waste is still considered "special" and therefore is subject to manifest requirements; as well as, requiring a supplemental permit for disposal at an Illinois Environmental Protection Agency permitted facility.

If you have any further questions or comments, please do not hesitate contacting us.

Very truly yours,

Michael L. Miller
Manager, Hazardous Waste Unit
Land Technical Operations Section
Division of Land/Noise Pollution Control

JSM:JFP:bls/1058B/1068B,1

cc: Site Owner/Operator

USE PA Number: IL0005471503 IEPA Number: 1110950003

(A) - Facility Name: Woodstock Die Casting

(B) Street: 555 Wheeler Street

(C) City: Woodstock (D) State: IL (E) Zip Code: 60098

(F) Phone: 815 338-0700 (G) County: McHenry

(H) Operator: Allied Information Systems

(1) Street: P.O. Box 2423R

(J) City: Morris town (K) State: N.J. (L) Zip Code: 07960

(M) Phone: 201 455-3441 (N) County: _____

(C) Owner: Same as (H)

(P) Street:

(R) City: _____ (R) State: _____ (S) Zip Code: _____

(T) Phone: (U) County:

Region: N (V) Date of Inspection: 05/29/86 (W) Time: (From) 9:15 A. (To) 1:00 P.

Type of Inspection: ISS RECORD REVIEW SAMPLING CITIZEN COMPLAINT

CLOSED

RECORD REVIEW

SAMPLING

CITIZEN COMPLAINT

CLOSED

WITHDRAWAL

OTHER

PART B

F/U / / (Date of Initial Inspection)

(X) Weather Conditions: 77° 75°, sunny

[illegible]

Class

Class

(AA) Preparer Information

Name Rick Peterson

Agency/Title
IEPA / ERS

Telephone 312 345-9780

RECEIVED

Jul 09 1952

IEPA-DLFC

TOTAL Class I's & II's

(Y) Person(s) Interviewed	Title	Telephone
<u>Don Woodside</u>	<u>Mgr. of Tech Serv.</u>	<u>815/338-0700</u>
<u>Robin Gorrell</u>	<u>Chem. Eng.</u>	<u>"</u>
(Z) Inspection Participants	Agency/Title	Telephone
_____	_____	_____
_____	_____	_____
_____	_____	_____

II. Section A: Scope of Inspection.

- Interim Status standards for the treatment, storage or disposal of HAZARDOUS WASTES SUBJECT TO 35 Ill. Adm. Code 725.101. Complete Inspection Form A, Sections B, C, D, E, and G.
- Place an "X" in the box(es) corresponding to the facility's treatment, storage or disposal processes, and generation and/or transportation activity (if any). Complete only the applicable sections and appendixes.

Permit application process(es) (EPA Form 3510-3)

Inspection Form A section(s)

SC1	<input checked="" type="checkbox"/>	storage in containers	I
SO2	<input type="checkbox"/>	storage in tanks	J
TO1	<input type="checkbox"/>	treatment in tanks	J
SC4	<input type="checkbox"/>	storage in surface impoundment	K, F
TO2	<input type="checkbox"/>	treatment in surface impoundment	K, F
D83	<input type="checkbox"/>	disposal in surface impoundment	K, F
SO3	<input type="checkbox"/>	storage in waste pile	L
D81	<input type="checkbox"/>	disposal by land application	M, F
D80	<input type="checkbox"/>	disposal in landfill	N, F
TO3	<input type="checkbox"/>	treatment by incineration	O, P
TO4	<input type="checkbox"/>	treatment in devices other than tanks, surface impoundments, or incinerators	Q

Other Activities

GENERATOR	<input checked="" type="checkbox"/>	APPENDIX	GN
TRANSPORTER	<input type="checkbox"/>	APPENDIX	TR

- Indicate any hazardous waste processes, by process code, which have been omitted from Part A of the facility's permit application.
- Indicate any hazardous waste processes (by process code and line number on EPA Form 3510-3 page 1 of 5) which appear to be eligible for exclusion per 35 Ill. Adm. Code 725.101(c). Provide a brief rationale for the possible exclusion.

III. GENERAL FACILITY STANDARDS:
(Part 265 Subpart B)

	Yes	No	NI*	Remark
(A) Has the Regional Administrator been notified regarding:				
1. Receipt of hazardous waste from a foreign source?	—	—	<u>MA</u>	<u>no foreign waste</u>
2. Facility expansion?	—	—	<u>MA</u>	<u>no expansion</u>
(B) General Waste Analysis:				
1. Has the owner or operator obtained a detailed chemical and physical analysis of the waste?	<u>✓</u>	—	—	—
2. Does the owner or operator have a detailed waste analysis plan on file at the facility?	<u>✓</u>	—	—	<u>'General Waste Analysis'</u>
3. Does the waste analysis plan specify procedures for inspection and analysis of each movement of hazardous waste from off-site?	—	—	<u>MA</u>	—
(C) Security - Do security measures include: (if applicable)				
1. 24-Hour surveillance?	<u>✓</u>	—	—	<u>guard service</u>
2. Artificial or natural barrier around facility?	<u>✓</u>	—	—	<u>fence</u>
3. Controlled entry?	<u>✓</u>	—	—	<u>gate</u>
4. Danger sign(s) at entrance?	<u>✓</u>	—	—	—
(D) Do Owner or Operator Inspections Include:				
1. Records of malfunctions?	<u>✓</u>	—	—	—
2. Records of operator error?	<u>✓</u>	—	—	—
3. Records of discharges?	<u>✓</u>	—	—	—

III. GENERAL FACILITY STANDARDS - Continued

	Yes	No	NI*	Remarks
4. Inspection schedule?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Safety, emergency equipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Security devices?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Operating and structural devices?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. Inspection log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(E) Do personnel training records include: (Effective 5/19/81)				
1. Job titles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Job descriptions?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Description of training?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Records of training?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Have facility personnel received required training by 5-19-81?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Do new personnel receive required training within six months?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(F) If required are the following special requirements for ignitable, reactive, or incompatible wastes addressed?				
1. Special handling?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Ignitable waste</u>
2. No smoking signs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Separation and protection from ignition sources?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

*Not Inspected

IV. PREPAREDNESS AND PREVENTION:
(Part 265 Subpart C)

(A) Maintenance and Operation
of Facility:

Is there any evidence of fire,
explosion, or release of
hazardous waste or hazardous
waste constituent?

Yes No NI* Remarks

— ✓ —

(B) If required, does the facility
have the following equipment:

1. Internal communications or
alarm systems?

✓ — —

telephone, P.A. system

2. Telephone or 2-way radios
at the scene of operations?

✓ — —

3. Portable fire extinguishers,
~~fire control, spill control~~
equipment and decontamination
equipment?

✓ — —

fire extinguishers, SCBA's,
absorbent

Indicate the volume of water and/or foam available for fire control:

City water w/ 100,000 gallon tower, sprinkler system

(C) Testing and Maintenance of
Emergency Equipment:

1. Has the owner or operator
established testing and
maintenance procedures
for emergency equipment?

✓ — —

2. Is emergency equipment
maintained in operable
conditions?

✓ — —

(D) Has owner or operator provided
immediate access to internal
alarms? (if needed)

✓ — —

fire alarm pull boxes

*Not Inspected

(E) Is there adequate aisle space for unobstructed movement?

✓

V. CONTINGENCY PLAN AND EMERGENCY PROCEDURES:
(Part 265 Subpart D)

(A) Does the Contingency Plan contain the following information:

Yes No NI* Remarks

1. The actions facility personnel must take to comply with §265.51 and 265.56 in response to fires, explosions, or any unplanned release of hazardous waste? (If the owner has a Spill Prevention, Control, and Countermeasures (SPCC) Plan, he needs only to amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this Part (as applicable.)

✓

2. Arrangements agreed by local police departments, fire departments hospitals, contractors, and State and local emergency response teams to coordinate emergency services pursuant to §265.37?

✓ Woodstock Fire and Police Depts., Woodstock hospital; on-site nurse

3. Names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinators?

✓

4. A list of all emergency equipment at the facility which includes the location and physical description of each item on the list and a brief outline of its capabilities?

✓

5. An evacuation plan for facility personnel where there is a possibility that evacuation could be necessary? (This plan must describe signal(s) to be used to begin evacuation, evacuation routes, and alternate evacuation routes?)

✓

V. CONTINGENCY PLAN AND EMERGENCY PROCEDURES - Continued

	Yes	No	NI*	Remarks
(B) Are copies of the Contingency Plan available at site and local emergency organizations?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Fire Dept.</u>
(C) Emergency Coordinator				
1. Is the facility Emergency Coordinator identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Is coordinator familiar with all aspects of site operation and emergency procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Does the Emergency Coordinator have the authority to carry out the Contingency Plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(D) Emergency Procedures				
If an emergency situation has occurred at this facility, has the Emergency Coordinator followed the emergency procedures listed in 265.56?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>no emergency w/ waste</u>

VI. MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING (Part 265 Subpart E)

	Yes	No	NI*	Remarks
(A) Use of Manifest System				
1. Does the facility follow the procedures listed in §265.71 for processing each manifest?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>no off site waste</u>
2. Are records of past shipments retained for 3 years?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
(B) Does the owner or operator meet requirements regarding manifest discrepancies?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

VI. RECORDKEEPING - Continued

(C) Operating Record

1. Does the owner or operator maintain an operating record as required in 265.73?

✓

2. Does the operating record contain the following information:

*b. The method(s) and date(s) of each waste's treatment, storage, or disposal as required in Appendix I?

✓

c. The location and quantity of each hazardous waste within the facility?

✓

***d. A map or diagram of each cell or disposal area showing the location and quantity of each hazardous waste? (This information should be cross-referenced to specific manifest number, if waste was accompanied by a manifest.)

 N/A no off-site waste

e. Records and results of all waste analyses, trial tests, monitoring data, and operator inspections?

✓

f. Reports detailing all incidents that required implementation of the Contingency Plan?

 N/A not needed to date

g. All closure and post closure costs as applicable? (Effective 5-19-81)

✓

** See page 33252 of the May 19, 1980, Federal Register.

*** Only applies to disposal facilities

VII. CLOSURE AND POST CLOSURE
(Part 265 Subpart G)

	Yes	No	NI*	Remarks
(A) Closure and Post Closure				
1. Is the facility closure plan available for inspection by May 19, 1981?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Has this plan been submitted to the Regional Administrator	<input type="checkbox"/>	<input type="checkbox"/>	<u>NI/A</u>	<u>active unit</u>
3. Has closure begun?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NI/A</u>	<u>"</u>
4. Is closure estimate available by May 19, 1981?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(B) Post closure care and use of property				
Has the owner or operator supplied a post closure monitoring plan? (effective by May 19, 1981)				<u>NI/A</u> <u>not subject to requirement</u>

VIII. FACILITY STANDARDS
(Part 265, Subparts I thru R)

I
USE AND MANAGEMENT OF CONTAINERS

Facility Name: Woodstock Die Casting Date of Inspection: 5/29/86

	Yes	No	NI*	Remarks
1. Are containers in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Are containers compatible with waste in them?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Are containers stored closed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Are containers managed to prevent leaks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Are containers inspected weekly for leaks and defects?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Are ignitable & reactive wastes stored at least 15 meters (50 feet) from the facility property line? (Indicate if waste is ignitable or reactive.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>ignitable</u>

	Yes	No	NI*	Remarks
7. Are incompatible wastes stored in separate containers? (If not, the provisions of 40 CFR 265.17(b) apply.)	---	---	<u>NI</u>	<u>all wastes compatible</u>
8. Are containers of incompatible waste separated or protected from each other by physical barriers or sufficient distance?	---	---	<u>NI</u>	<u>"</u>

J
TANKS

Facility Name: _____ Date of Inspection: _____

1. Are tanks used to store only those wastes which will not cause corrosion, leakage or premature failure of the tank?	---	---	<u>NI</u>	<u>no tanks</u>
2. Do uncovered tanks have at least 60 cm (2 feet) of freeboard, or dikes or other containment structures?	---	---	---	---
3. Do continuous feed systems have a waste-feed cutoff?	---	---	---	---
4. Are waste analyses done before the tanks are used to store a substantially different waste than before?	---	---	---	---
5. Are required daily and weekly inspections done?	---	---	---	---
6. Are reactive & ignitable wastes in tanks protected or rendered non-reactive or non-ignitable? Indicate if waste is ignitable or reactive. (If waste is rendered non-reactive or non-ignitable, see treatment requirements.)	---	---	---	---
7. Are incompatible wastes stored in separate tanks? (If not, the provisions of 40 CFR 265.17(b) apply.)	---	---	---	---

	Yes	No	NI*	Remarks
3. Has the owner or operator addressed the waste analysis requirements of 265.402?	—	—	<u>NI/A</u>	_____
4. Are inspection procedures followed according to 265.403?	—	—		_____
5. Are the special requirements fulfilled for ignitable or reactive wastes?	—	—		_____
6. Are incompatible wastes treated? (If yes, 265.17(b) applies.)	—	—		_____

Note: EPA has temporarily suspended the applicability of the requirements of the hazardous waste regulations in 40 CFR Parts 122, 264 and 265 to owners and operators of (1) wastewater treatment tanks that receive, store, and treat wastewaters that are hazardous waste or that generate, store or treat a wastewater treatment sludge which is a hazardous waste where such wastewaters are subject to regulation under Sections 402 or 307(b) of the Clean Water Act (33 U.S.C. 1251 et seq.) and (2) neutralization tanks, transport vehicles, vessels, or containers which neutralize wastes which are hazardous only because they exhibit the corrosivity characteristic under 40 CFR §261.22, or are listed as hazardous wastes in Subpart D of 40 CFR Part 261 only for this reason.

IX

Complete this section if the owner or operator of a TSD facility also generates hazardous waste that is subsequently shipped off-site for treatment, storage, or disposal.

1. MANIFEST REQUIREMENTS

	Yes	No	NI*	Remarks
(A) Does the operator have copies of the manifest available for review?	<u>✓</u>	—	—	_____
(B) Do the manifest forms reviewed contain the following information: (If possible, make copies of, or record information from, manifest(s) that do not contain the critical elements)				
1. Manifest document number?	<u>✓</u>	—	—	_____
2. Name, mailing address, telephone number, and EPA ID Number of Generator	<u>✓</u>	—	—	_____

	Yes	No	NI*	Remarks
3. Name and EPA ID Number of Transporter(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Name, address, and EPA ID Number of Designated permitted facility and alternate facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. The description of the waste(s) (DOT shipping name, DOT hazard class, DOT identification number)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. The total quantity of waste(s) and the type and number of containers loaded?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Required certification?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. Required signatures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(C) Does the owner or operator submit exception reports when needed?	<input type="checkbox"/>	<input type="checkbox"/>	<u>MA</u>	<u>not needed to date</u>

2. PRE-TRANSPORT REQUIREMENTS

(A) Is waste packaged in accordance with DOT Regulations? (Required prior to movement of hazardous waste off-site)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(B) Are waste packages marked and labeled in accordance with DOT regulations concerning hazardous waste materials? (Required to movement of hazardous waste off-site)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(C) If required, are placards available to transporters of hazardous waste?	<input type="checkbox"/>	<input type="checkbox"/>	<u>MA</u>	<u>provided by hauler</u>

VI. RECORDKEEPING and REPORTING
(Part 262, Subpart D)

	Yes	No	NI*	Remarks
(A) Are Manifests, Annual Reports, Exception Reports, and all test results and analyses retained for at least three years?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(B) Has the generator submitted Annual Reports and Exception Reports as required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Annual Reports</u>

VII. INTERNATIONAL SHIPMENTS
(Part 262, Subpart E)

Has the installation imported or exported Hazardous Waste?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
--	--------------------------	-------------------------------------	--------------------------	--

(If answered Yes, complete the following as applicable.)

1. Exporting Hazardous waste, has a generator:				
a. Notified the Administrator in writing?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>N/A no foreign waste</u>
b. Obtained the signature of the foreign consignee confirming delivery of the waste(s) in the foreign country?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Met the Manifest requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Importing Hazardous Waste, has the generator:				
Met the manifest requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

-1-

TO: DIVISION FILE DATE: 5/29/86
FROM: RIP
SUBJECT: Woodstock Die Casting

☒ Information only☐ Response requested

REMARKS

Facility die casts zinc and aluminum products. Operations include machining, fabrication, plating, and painting.

The following waste streams are generated on a routine basis:

- 1) Sludge (FOOG) from a MPOES permitted wastewater treatment plant. Material was temporarily delisted in 1981 (see 46 FR 17198) but Die Casting was informed on March 3, 1986, that the USEPA was going to deny the issuance of a permanent exclusion. The facility has 12 months from the effective date of the final decision (publication of the denial in the Federal Register) to come into compliance with the Interim Status Provisions. Prior to receipt of the above, sludge had been going to Grayslake/ARF (#782083). Sludge currently goes to Calumet City/CTIC or Fandessy Enterprises of Ohio. Rate of generation is about two cubic yards per day with sludge leaving the site within



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

F1

TO: _____ DATE: 5/29/86

FROM: _____ ☒ Information only

SUBJECT: _____ ☐ Response requested

REMARKS cont

ten days of generation

2) Waste paint/solvents (Acet, Hex, Eox) - from
cleanup of paint line. Current generation
is 4-5 drums/month. Material goes to
Wi/Avrganic Ind (Hydrite).

At the time of the inspection, Woodstock
Dip Coating appeared in compliance with
all appropriate RCRA regulations.



DATE: August 15, 1986

TO: Division File

FROM: Dennis Newman

SUBJECT: 1110950003 -- McHenry County
Woodstock/Woodstock Die Cast, Inc.
Superfund/Technical Reports

On August 6, 1986, Jim Janssen, Bob Cotton, and this author met with Allied Corporation of Southfield, Michigan. They requested a meeting to discuss results of a preliminary groundwater study at the above referenced site. Allied Corporation has recently sold their interest in Woodstock Die Cast, Inc., and as part of the sale agreement Allied retained responsibility for environmental problems at the site.

John Beale, Manager of Environmental Services for Allied, described Woodstock Die Cast as an old facility in the center of Woodstock. When Allied decided to sell the facility, they contracted for an Environmental Disclosure Document, which amounts to an Environmental Audit. In conducting this environmental study, they discovered contamination of the shallow aquifer. Contaminants include volatile organics, lead, and chromium. Two of a total of five city wells are located immediately west of the Die Cast plant. The other three city wells are located approximately 8-10 blocks north-northeast of the plant. Each of the city wells have been sampled by Allied's contractor T.A. Gleason Associates, Environmental and Geotechnical Services. Data presented indicated that contaminants were found in wells #1, 5, & 6, however, concentrations were less than standards or MCL's.

The source of the contamination is likely to be the 97 underground tanks located on Die Cast property. Most of these tanks are actually open sumps, but they fall within the definition of underground tanks as written in Subpart I of RCRA.

Allied intends to install several more monitoring wells the week of August 11th. They currently have thirty wells in place. They also plan to compile the data collected to date into a single report. At our request, they also plan to begin investigating the integrity of the tanks. On August 8, 1986, I talked to Charlie Zel regarding the underground tanks and what powers, if any, we have to push for an investigation or remediation of that apparent problem. His reply was that we would have to ask USEPA Region V for a 9005 Order. A 9005 Order apparently dictates that the facility must document the integrity of their underground tanks.

The meeting was also attended by three representatives of the City of Woodstock, Dennis Anderson, John Isbell, and John Morris, a consulting engineer. Their concern, of course, was for the drinking water quality of their five wells.

DN:jp:4/156

cc: Jim Janssen
Bob Cotton, Northern Region



Environmental Protection Agency

2200 Churchill Road, Springfield, Illinois 62706

MEMORANDUM

DATE: August 22, 1980
TO: Records Unit ✓
FROM: Yogesh Sheth
SUBJECT: Woodstock Die Casting -- Woodstock -- NPDES Permit No. IL0033863

On August 14, 1980 Judy Carter, John Raevuori, Jerry Rogers and this writer visited the above named facility. The purpose of the visit was to inspect the wastewater treatment facility. Technical Service Director, Michael Graudiello, representing the company, accompanied us on this visit.

The facility operation consists of die casting of zinc and aluminum alloy, and subsequently machining and finishing such as polishing, buffing, electroplating and painting. Wastewater is generated mainly from metal cleaning, die casting operation, phosphate cleaning line, blade line, copper nickel and chrome plating lines, cooling tower blowdown and the demineralization unit. The primary pollutants are oil, copper, nickel, chrome, iron, aluminum, zinc, lead and cyanide.

Municipal water is used for cooling and rinse purposes. Cooling water is recirculated in heat exchanger to condense vapor in the evaporators and to cool hydraulic presses. Cooling water is a total recycle system with 5 gpm intermittent cooling tower blowdown discharge to treatment system. Demineralized water is used in the plating rinse water to prevent aging spot on the plated parts. Demineralized water is also used in the ion exchange columns. Metal cleaning is done by using naphtha 395 solvent and is subsequently discharged to the treatment system. No wastewater is generated from paint line from this facility. Floor drains from the casting operation contains oil and aluminum, and is collected in a tank and is hauled away. The blade line is cleaning of aluminum and zinc alloy blades in alkaline and sulfuric acid solution for further processing. The facility has two automatic plating lines of copper, nickel and chrome used for plating automotive parts.

The wastewater treatment system can be summarized as follows:

1. The cyanide bearing wastewaters resulting from the plating process are diverted from the process system to a large surge basin. Cyanide fumes are controlled in the surge basin due to the high pH of the wastewater. Rinse water is pumped from the surge basin at a controlled rate to the multi-effect evaporator system. The quadruple

effect evaporator is designed to evaporate approximately 30,000 pounds per hour of rinse water at 130°F and 23-26 inches of mercury. The condensed distillate approximately 51 gpm from the evaporator system is returned to the process as make-up rinse water. The concentrated cyanide bearing solution, approximately 1 gpm containing 600 to 700 ppm of cyanide is stored for future use in the process. The entire multi-effect evaporator system is a closed loop recycle recovery system with zero discharge to the waters of the State.

2. The contaminated cyanide bearing wastewaters, approximately 15 gpm, which would not be acceptable in the recovery loop is directed to a holding tank for cyanide destruction by chlorination. pH is adjusted to 11.0 by addition of caustic soda prior to chlorination. A pH meter and an ORP meter is used to measure the pH of the liquid. After destruction, the batch effluent is discharged to the total systems general collection sump.
3. The rinse water from the chrome plating line is passed through an anionic exchanger, then through a cation exchanger and finally through the evaporator prior to reuse as a rinse water. The anionic exchangers, upon periodic regeneration, give up the chrome ions adsorbed from the rinse water. These chrome ions in the form of sodium chromate pass through the cation exchangers where Na is removed to yield chromic acid. This chromic acid solution is then discharged into the holding tank ahead of the evaporator. This material, being too dilute for re-use, is run batchwise into the evaporator where excess water is removed by vacuum distillation. The concentrated chromic acid solution is stored for future use in the process. Distillate is used for make-up rinse water.
4. The chrome reduction system is designed to receive chromate bearing acidic streams, regenerant acid waste from cationic exchangers, and backwash water from the demineralization unit. This unit is called a sulfonator, where pH is adjusted to 1.5 to 2.5 by the addition of sulfuric acid and then sulfur dioxide is injected to reduce the hexavalent chrome to the trivalent form. The effluent is then discharged to the total system general collection sump.
5. General collection sump is designed to receive the waste from cyanide destruction unit, sulfonator, blade line operation, cooling tower blowdown, floor drains and metal cleaning operation.
6. pH neutralization is provided to adjust the pH of the wastewater to 8.5 by addition of lime for metal precipitation prior to clarification.

7. The neutralized wastewater stream is pumped to a reactivator clarifier to remove the metal hydroxide precipitates. Alum is added to the system to coagulate the precipitate. After settling, the supernatant is discharged into Nippersink Creek via a storm sewer under NPDES Permit No. IL0033863.
8. Settled sludge is drawn from the clarifier and pumped into the sludge thickener and then to a vacuum filter. The sludge contains sulfates of zinc, iron, copper, nickel and chromium and is disposed of in an agency approved landfill.

Summary:

The plant appeared to be a clean operation. The main automatic plating line was inoperable due to the breakdown of the DC power generator. All the units of the treatment works were operating soundly during the visit. Mr. Gaudiello informed us that the tertiary mixed-media filtration unit has been down for the last five weeks and will be reused again in the near future. Presently, the facility is meeting its NPDES permit conditions, except for occasional cyanide excursions.

YS:dw/364H/1-3

cc: Lawrence W. Eastep
John Radwoni - Region 2, IEPA

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

INTER-OFFICE CORRESPONDENCE

111 095 AAF

DATE: July 26, 1974

MEMO TO: Tom Casper, Enforcement Services Section, DAPC

FROM: Domingo V. Abella, Region II, DAPC

SUBJECT: Woodstock Die Casting Corporation - Supplemental Information
555 Wheeler Street
Woodstock, Illinois 60098

Company Contact: Mr. L. Dirrenberger, Mfg. Engineering Manager
Mr. Herman Engelmann, Plant Engineer

Weather:

Temperature - 75°F

Wind - S, 21 MPH

Sky - Sunny

Permit Status: No operating permit

An investigation was conducted of the above plant on July 2, 1974, due to a complaint submitted to this office by the McHenry County Department of Health concerning an odor coming from the above facility.

Mr. Dirrenberger was contacted and referred me to Mr. Engelmann. Mr. Engelmann explained their operations and conducted a plant tour. The following observations were made.

The plant was shut down for an annual inventory. Some of the equipment was down for cleaning and maintenance check-up. The aluminum reverberatory furnaces were observed to be in operation.

Mr. Engelmann requested that I look first at their waste water treatment plant because he thought this would be a possible source of odor. In this section, waste water from the plating operation discharges to a collection sump where it is neutralized with lime to a pH of 8.5. The neutralized waste water flows by gravity to a clarifier tank and is treated with alum to precipitate the metal hydroxides. The clear water flows to a sand filter media and discharges to the city sewer system. The sludge is filtered on a drum filter and the filter cakes are collected. The filtrate goes back to the clarifier tank. There was no odor observed in this operation.

In the plating operation, zinc castings are washed in an alkali spray washer which contains a solution of tri sodium meta silicate with a concentration of 2 oz. per gallon. The solution temperature is 170°F. Emissions from this operation are vented to a stack by means of a blower. Rooftop inspection revealed an accumulation of white silicate residue spread on the roof around the washer stack. This equipment was not in operation at the time of the inspection. After washing the castings are rinsed with water and conveyed to the

EVERY INTER-OFFICE LETTER SHOULD HAVE ONLY ONE SUBJECT.

ALL LETTERS TO BE SIGNED . . . NO SALUTATION OR COMPLIMENTARY CLOSING NECESSARY.

plating tanks for chrome, copper or nickel plating.

In the chrome plating area the castings are dipped in a bath of chromic acid and sulfuric acid. The temperature of the bath is 115°F. Emissions from this operation are controlled by a Heil Fume Scrubber.

The copper plating bath contains a solution of copper cyanide and potassium hydroxide. The bath temperature is 160°F. Emissions from the tank are controlled by a fume scrubber using water as the scrubbant.

Other areas observed were the aluminum and zinc melting operation and the painting operation. There are four uncontrolled aluminum reverberatory furnaces. Two of the furnaces have a holding capacity of 20,000 lbs. each and other two have capacities of 4000 lbs. each. Also there are 12 pot furnaces for zinc melting which are uncontrolled. The process weight rate for each zinc melting furnace is 4000-5000 pounds per hour.

In the painting area, there are 24 paint spray booths equipped with dry filter pads. The facility consumed 8000 gallons of paint per month and 10,000 gallons of solvent per month. The booths are arranged back to back so that emissions from two spray booths are ducted to one common stack.

The following area residents were interviewed after the plant investigation.

Mrs. Paul Hill, 146 First Street, Woodstock:

She said that she smelled lacquer odor emitted from the plant but she is not bothered at all.

Mrs. Martha Bennett, 903 Clay St., Woodstock:

She has no complaint.

Mr. Paul McDonald, MdHenry County Health Dept., Route 47, Woodstock:

He stated that he observed lacquer and solvent odor while he was conducting an inspection of the area.

Mrs. Elmer Benson, 805 Clay Street:

She told me that she smelled solvent odor but it doesn't bother her at all.

On July 10, 1974, another observation was made outside the plant premises and a solvent odor, perhaps coming from the facility, was noted near the residential area.

16410006790

Conclusion and Recommendation

22
026700149
The sources of air pollution in this plant are their painting operation, smelting operation, and the alkali spray washer. The attached calculations reveal that the facility is in violation of Rule 205(f) for non-exempt solvent usage and Rule 203(b) for excessive particulate emissions from their aluminum reverberatory furnaces. At this point, it is emphasized that particulate emission calculations from the reverberatory furnaces were made on two bases. Firstly, the 4 reverberatory furnaces were treated as individual emission sources. Secondly, as combined similar emission sources. It appears that the first basis would establish an apparent violation barely over the borderline. However, the combined emission sources emit almost 1.5 times the allowable.

According to our records, an enforcement referral was submitted on March 13, 1973, but never forwarded to the Attorney General. This referral covered excessive particulate emissions on their paint spray booths. A review of the emission calculations made on the old referral shows that the assumed filter efficiency of the dry type spray booth is 90% which is low figure for spray booth using primer paint. Recalculation of the particulate emissions on the spray booths using a higher dry filter efficiency based on tests with five Federal Specification paints published in an article (Product Finishing January, 1970, pp. 74-79) reveal that the spray booths are in compliance with the particulate regulation. Aside from the above, the facility has no operating permits. It is recommended that the old referral be dropped and a new one is requested covering violations of Rule 203(b) for excessive particulate emissions from their reverberatory furnace; Rule 205(f) for non-exempt solvent usage, and Rule 103(b)(2) for failure to apply for an operating permit. A warning letter will be sent citing the above violation.

DVA:ddp

cc: Region II Files
Miles A. Zamco, DAPC
Peter Orlinsky, DAPC

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

INTER-OFFICE CORRESPONDENCE

111095 AAF

DATE: December 17, 1974

MEMO TO: Miles Zamco, Surveillance Manager, DAPC

FROM: *R.B.* Robert Balciunas and Domingo Abella, Region II DAPC

SUBJECT: Woodstock Die Casting Corp.
555 Wheeler St.
Woodstock, Ill.

Contact: Mr. Herman Engelmann, Plant Engineer
Mr. Michael Gaudiello, Director of Technical Services

Weather: Temp-22°F, Wind - W 8 mph, Sky - Cloudy
Time: 10:30AM - 12:00 Noon

A follow-up inspection was conducted on December 19, 1974.

Last July, 1974, the above facility was previously cited for violation of Rule 205 (f) and Rule 203 (b) for excessive particulates emitted from four (4) uncontrolled aluminum reverberatory furnaces. Technical violation of Rule 203 (b) was established on the basis of combined similar emission sources. However, the Permit Section issued an operating permit for the Aluminum Reverberatory furnaces by treating each furnace as individual emission sources, thus putting them in compliance.

Regarding the usage of photochemically reactive material, the facility has 12 twin dry filter spray booths, each ducted to a common stack. Calculations made on previous memo revealed that the total solvents emitted to the atmosphere is 67.0 lbs per hour. The facility has been in violation of Rule 205 (f) since the effectivity of the regulation and up to this time, no effort was demonstrated by them to comply with the regulations.

A telephone conversation was made on the last week of November, with ~~Mrs.~~ Engelmann and Gaudiello. This violation was discussed with them and they indicated that they would file a variance petition to operate beyond Rule 205 (f). Since that time, nothing was heard from them. This is the reason for the follow-up investigation.

The authors contacted Mr. Engelmann, but was referred to Mr. Gaudiello who discussed the steps they had taken to comply with Rule 205 (f). Mr. Gaudiello told us they are working toward exempt solvents. He showed us the letters from their paint and solvent suppliers. Only two of their suppliers (PPG and Whitaker Corp.) indicated that they are capable of supplying the exempt solvent. However, their main problem is to get approval from Ford and Chrysler Corp. to use these re-formulated paints. Mr. Gaudiello conferred with representatives of Ford and Chrysler Corporation. He informed them that they are required by the EPA to comply with Rule 205 (f) which necessitate the reformulation of their paints to contain exempt solvents. Ford and Chrysler representatives indicated that they are going to

EVERY INTER-OFFICE LETTER SHOULD HAVE ONLY ONE SUBJECT
ALL LETTERS TO BE SIGNED . . . NO SALUTATION OR COMPLIMENTARY CLOSING NECESSARY

Miles Zamco
Woodstock Die Casting Corp.

December 17, 1974
Page two

make a study whether the reformulated paints will meet their specifications but there was no response yet from them if the reformulation meets their approval.

Mr. Gaudiello conducted a brief tour of the plant and explained again their operation. He told us that the facility is scheduled to shutdown on the following dates: December 20, 1974, to January 6, 1975; January 27, 1975 to January 30, 1975; February 24, 1975 to February 28, 1975; and March 24, 1975 to March 28, 1975. There were no changes observed in their operation since the last inspection.

At the end of the plant tour, Mr. Engelmann joined us. The authors asked Mr. Engelmann what direction the facility would take to comply with Rule 205 (f). He mentioned that they are going to file a Variance petition and will work toward exempt solvents to comply with the regulation.

Conclusion and Recommendations:

Based on the above, it appears that the facility's compliance with Rule 205 (f) is dependent on Ford and Chrysler Corporation approval of the proposed paint reformulation. PPG and Whitaker Corporation are the two coating and solvent suppliers who can supply the exempt solvents requirement of the facility. Since the facility gave no definite assurance to comply with the regulations, it is recommended that another warning letter will be sent to the facility citing continued violation of Rule 205 (f). An enforcement brochure will be requested if there will be no adequate response from the facility.

RB:DA:ftl
cc: Region II Files



Woodstock Die Cast

CL DWPC-CAS-RO
: DWPC-CAS

JR
Woodstock Die Cast Inc.
555 Wheeler Street
Woodstock, IL 60092
Telephone (815) 338-0700

NPDES Permit No. IL0033863

August 26, 1986

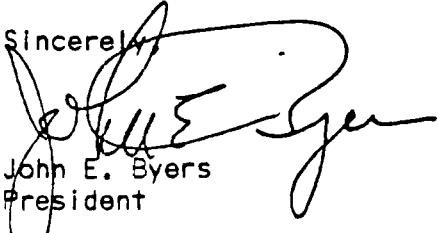
Mr. John Raevuori
Illinois Environmental Protection Agency
Division of Water Pollution Control
Region 2-A
1701 South First Avenue
Maywood, IL 60153

Dear Mr. Raevuori:

Enclosed you will find our Total Toxic Organic (TTO) Monitoring Report for the 2nd quarter of 1986. The identity and concentration of the individual compounds comprising the TTO value may be found in the enclosed laboratory report.

If you have any questions, please contact me.

Sincerely,


John E. Byers
President

JEB:rg

enclosures

Aug 27 1986
Illinois Environmental Protection Agency
Division of Water Pollution Control
Region 2-A



Woodstock Die Cast

Woodstock Die Cast Inc.
555 Wheeler Street
Woodstock, IL 60098
Telephone (815) 338-0700

8-19-86

TOTAL TOXIC ORGANICS: MONITORING REPORT

1. Volatile Pollutants: Two grab samples were collected and analyzed for volatile pollutants. The results are as follows:

	Grab A	Grab B
Toluene	.013 mg/l	---
Chloroform	.036 mg/l	.062 mg/l
1,1,1 Trichloroethane	---	.021 mg/l
Methylene Chloride	.088 mg/l	.150 mg/l
Total	.137 mg/l	.233 mg/l

All other volatile pollutants listed in 40 CFR 433.11(e) were below the concentration limit of 0.01 mg/l.

2. Base/Neutral Compounds: One composite sample, dated 6-4-86, was analyzed for base/neutral compounds. All base/neutral compounds listed in 40 CFR 433.11(e) were below the detectable limit.
3. Acid Extractables: One composite sample, dated 6-4-86, was analyzed for acid extractable compounds. All acid extractable compounds listed in 40 CFR 433.11(e) were below the detectable limit.
4. Pesticides/PCBs: One composite sample, dated 6-4-86, was analyzed for pesticides and PCB compounds. All pesticides and PCB compounds listed in 40 CFR 433.11(e) were below the detectable limit.

DAILY MAXIMUM TOTAL TOXIC ORGANICS: 0.233 mg/l

PERMIT LIMITATION: 1.87 mg/l

Woodstock Die Cast, Inc.
Page Two

Lab No: 3-681
July 21, 1986

NOV 2 1986

RESULTS:

<u>VOLATILES</u>	<u>Concentration in ppm</u>	
	<u>Grab A</u>	<u>Grab B</u>
Acrolein	< 0.10	< 0.10
Acrylonitrile	< 0.10	< 0.10
Benzene	< 0.001	< 0.001
Toluene	0.013	< 0.001
Ethyl Benzene	< 0.001	< 0.001
Carbon tetrachloride	< 0.001	< 0.001
Chlorobenzene	< 0.001	< 0.001
1,2 Dichloroethane	< 0.001	< 0.001
1,1,1 Trichloroethane	< 0.001	0.021
1,2 Dichloroethane	< 0.001	< 0.001
1,2 Dichloroethylene	< 0.001	< 0.001
1,1,2 Trichloroethane	< 0.001	< 0.001
1,1,2,2 Tetrachloroethane	< 0.001	< 0.001
Chloroethane	< 0.001	< 0.001
2 Chloroethyl vinyl ether	< 0.001	< 0.001
Chloroform	0.036	0.062
1,2 Dichloropropane	< 0.001	< 0.001
1,3 Dichloropropene	< 0.001	< 0.001
Methylene Chloride	0.088	0.15
Methyl Chloride	< 0.001	< 0.001
Methyl Bromide	< 0.001	< 0.001
Bromoform	< 0.001	< 0.001
Dichlorobromomethane	< 0.001	< 0.001
Trichlorofluoromethane	< 0.001	< 0.001
Chlorodibromomethane	< 0.001	< 0.001
Dichlorodifluoromethane	< 0.001	< 0.001
Tetrachloroethylene	< 0.001	0.007
Vinyl Chloride	< 0.001	< 0.001
1,2 t Dichloroethylene	< 0.001	< 0.001
Bis (chloromethyl) ether	< 0.001	< 0.001
Trichloroethylene	< 0.001	< 0.001



Woodstock Die Cast, Inc.
Page Three

Lab No: 3-681
July 21, 1986

RESULTS:

Concentration in ppm

BASE/NEUTRALS

Composite

1,2 Dichlorobenzene	< 0.01
1,3 Dichlorobenzene	< 0.01
1,4 Dichlorobenzene	< 0.01
Hexachloroethane	< 0.01
Hexachlorobutadiene	< 0.01
Hexachlorobenzene	< 0.01
1,2,4 Trichlorobenzene	< 0.01
bis (2-Chloroethoxy) methane	< 0.01
Naphthalene	< 0.01
2 Chloronaphthalene	< 0.01
Isophorone	< 0.01
Nitrobenzene	< 0.01
2,4 Dinitrotoluene	< 0.01
2,6 Dinitrotoluene	< 0.01
4 Bromophenyl phenyl ether	< 0.01
bis (2-Ethylhexyl) phthalate	< 0.01
Di n octyl phthalate	< 0.01
Dimethylphthalate	< 0.01
Diethylphthalate	< 0.01
Di n butyl phthalate	< 0.01
Fluorene	< 0.01
Fluoranthene	< 0.01
Chrysene	< 0.01
Pyrene	< 0.01
Phenanthrene	< 0.01
Anthracene	< 0.01
Benzo (a) anthracene	< 0.01
Benzo (b) fluoranthene	< 0.01
Benzo (k) fluoranthene	< 0.01
Benzo (a) pyrene	< 0.01
Indeno (1,2,3-c,d) pyrene	< 0.01



Woodstock Die Cast, Inc.
Page Four

Lab No: 3-681
July 21, 1986

RESULTS:

Concentration in ppm

BASE/NEUTRALS (cont'd)

Composite

Dicenzo (a,h) anthracene	< 0.01
Benzo (g,h,i) perylene	< 0.01
4 Chlorophenyl phenyl ether	< 0.01
3,3' Dichlorobenzidine	< 0.05
Ben-zidine	< 0.05
bis (2-chloroethyl) ether	< 0.01
Hexachlorocyclopentadiene	< 0.01
N-Nitrosodiphenylamine	< 0.05
Acenapnthylene	< 0.01
Acenaphthene	< 0.01
Butyl benzyl phthalate	< 0.01
N-Nitrosodimethyl amine	< 0.05
N-Nitrosodi-n-propyl amine	< 0.05
bis (2 Chloroisopropyl) ether	< 0.01



Woodstock Die Cast, Inc.
Page Five

Lab No: 3-681
July 21, 1986

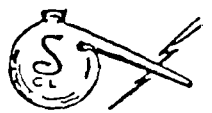
RESULTS:

Concentration in ppm

ACID EXTRACTABLES

Composite

Phenol	< 0.01
2 Nitrophenol	< 0.01
4 Nitrophenol	< 0.01
2,4 Dinitrophenol	< 0.01
4,6 Dinitro o cresol	< 0.01
Pentachlorophenol	< 0.05
p-chloro-m-cresol	< 0.01
2 Chlorophenol	< 0.01
2,4 Dichlorophenol	< 0.01
2,4,6 Trichlorophenol	< 0.01
2,4 Dimethyl phenol	< 0.01



Woodstock Die Cast, Inc.
Page Six

Lab No: 3-681
July 21, 1986

RESULTS:

Concentration in ppm

PESTICIDES/PCBs

Composite

a - Endosulfan	< 0.01
b - Endosulfan	< 0.01
Endosulfan Sulfate	< 0.01
a - BHC	< 0.01
b - BHC	< 0.01
g - BHC	< 0.01
d - BHC	< 0.01
Aldrin	< 0.01
Dieldrin	< 0.01
4,4 ¹ DDE	< 0.01
4,4 ¹ DDD	< 0.01
4,4 ¹ DDT	< 0.01
Endrin	< 0.01
Endrin Aldehyde	< 0.01
Heptachlor	< 0.01
Heptachlor epoxide	< 0.01
Chlordane	< 0.01
Toxaphene	< 0.01
Arochlor 1016	< 0.01
Arochlor 1221	< 0.01
Arochlor 1232	< 0.01
Arochlor 1242	< 0.01
Arochlor 1248	< 0.01
Arochlor 1254	< 0.01
Arochlor 1260	< 0.01
2,3,7,8 Tetrachlorodibenzo dioxin	< 0.01



Woodstock Die Cast, Inc.
Page Seven

Lab No: 3-681
July 21, 1986

Respectfully submitted,

SCIENTIFIC CONTROL LABORATORIES, INC.

SPG:clm
2c

By

[Signature]
S. F. Gary

CERTIFICATION

The above statements and report were subscribed and sworn to before me this TWENTY-FIRST day of JULY, 1986.

[Signature]
Notary Public



ENVIRONMENTAL PROTECTION AGENCY

3 03341 DIVISION OF WATER POLLUTION CONTROL
WASTE TREATMENT WORKS EFFLUENT SAMPLING FORM

SAMPLE COLLECTED BY

J. RAUVUORI

LOCATION OF SAMPLING POINT

WOODSTOCK DIE CASTING

24 HR
COMPOSITE

BASIN

ILLINOIS R.

SUB-BASIN (IF NONE ENTER "DIRECT")

FOX R.

TRIBUTARY

NIPPERSINK CK.

MINOR TRIBUTARY

SOUTH BR.

SEND ORIGINAL
OF RESULTS TO:

MAYWOOD

SUB-BASIN
OFFICE☐ PERFORMANCE MEASUREMENT
SECTION, SPRINGFIELDSEND COPY OF EDP SERVICES
RESULTS TO: ☐ SECTION, SPRINGFIELD

CARD COL.

CARD NO. 1

CARD COL.

2

CARD NO. 2

CARD COL.

3

CARD NO. 3

2-3 DTLB

BASIN CODE

6-7 02

PLANT OR STATION NO.

9-10 LLLFIPS COUNTY CODE
(USE ONLY FOR PLAN11-17 0003341LAB
ID NO.11-17 0003341LAB
ID NO.11-17 0003341LAB
ID NO.18 E SAMPLE TYPE CODE
(SEE LIST BELOW) ED18 --- SAMPLE TYPE CODE18 --- SAMPLE TYPE CODE19-20 83 YEAR21-22 2 MONTH23-24 15 DAY25-26 --- HOUR (NEAREST)27 --- TIME OF DAY (A.M./P.M.)28-30 --- WATER TEMPERATURE
(DEG. F.)31-33 --- FIELD D.O.PH (UNITS) 8.7TOTAL PHOSPHORUS 0.74AVG. BOD. 4C.O.D. 35PHENOLS 0.0000AMMONIA 0.08NITRATE + NITRITE AS N ---ORGANIC N ---TOTAL N ---T.D.S./E.C. ---TOTAL SUSP. SOLIDS 2TOTAL SUSP. SOLIDS ---TOTAL SUSP. SOLIDS ---

SAMPLE TYPE CODES:

- A=DOMESTIC WASTE ONLY
E=INDUSTRIAL WASTE ONLY
I=MIXED DOMESTIC & INDUSTRIAL WASTE
S=STREAM, LAKE, OR RECEIVING WATER QUALITY
T=MINE DRAINAGE OR WASTE
X=OTHER OR TYPE UNKNOWN

SIGN BELOW FOR EFFLUENT SAMPLE

TRANSPORTED BY J. W. RauvoriRECEIVED BY --- TIME ---TRANSPORTED BY ---

ARSENIC

BARIUM

BORON

CADMIUM

CHROMIUM (HEX)

CHROMIUM (TRI)

CHROMIUM (TOTAL)

COPPER

CYANIDE

IRON (TOTAL)

IRON (DISSOLVED)

LEAD

MANGANESE

MERCURY (MICROSM/L)

NICKEL

SELENIUM

SILVER

ZINC

ALL RESULTS EXPRESSED AS MG/L EXCEPT
WHERE OTHERWISE STATED.PHYSICAL OBSERVATIONS & COMMENTS (ABNORMAL COLOR, ODOR, FLOATING MATTER, OIL
SLUDGE, TURBIDITY, WEATHER, LOCATION OF SAMPLING POINT:

PLANKTON (NO./ML)

FLUORIDE

CHLORIDE

SULFATE AS SO₄

TOTAL SULFUR AS S

OIL

M.B.A.S.

CARBON CHLOROFORM
EXTRACTTURBIDITY
(UNITS)RESIDUE ON
EVAPORATIONVOLATILE SUSP.
SOLIDS

COLOR (UNITS)

HARDNESS

ALKALINITY

TOTAL ACIDITY

FREE ACIDITY

OTHER TESTS REQUIRED RESULTS

FOR LABORATORY USE ONLY

SAMPLE RECEIVED BY J. RauvoriDATE REC'D 2-14-83 TIME REC'D 10:50DATE ANALYSIS COMPLETED ---DATE RESULTS FORWARDED ---TOTAL TESTS REQUESTED ---TESTS RUN ---

WASTE TREATMENT WORKS EFFLUENT SAMPLING FORM

SAMPLE COLLECTED BY J. RAUVORI LOCATION OF SAMPLING POINT WOODSTOCK DIE CASTING GRABBASIN ILLINOIS R. SUB-BASIN (IF NONE ENTER "DIRECT") FOX R. TRIBUTARY NIPPERSINK CK MINOR TRIBUTARY SOUTH BRANCHSEND ORIGINAL OF RESULTS TO: MAYWOOD SUB-BASIN OFFICE ☐ PERFORMANCE MEASUREMENT SECTION, SPRINGFIELD SEND COPY OF EDP SERVICES RESULTS TO: ☐ SECTION, SPRINGFIELD

CARD COL. 1 CARD NO. 1 CARD COL. 2 CARD NO. 2 CARD COL. 3 CARD NO. 3

2-5 DTKB BASIN CODE 6-7 02 PLANT OR STATION NO. 8-10 111 FIPS COUNTY CODE (USE ONLY FOR PLANT)11-17 0003340 LAB ID NO. 11-17 0003340 LAB ID NO. 11-17 0003340 LAB ID NO.18 P SAMPLE TYPE CODE (SEE LIST BELOW) 18 P SAMPLE TYPE CODE 18 P SAMPLE TYPE CODE19-20 83 YEAR 19-20 83 YEAR 19-20 83 YEAR21-22 3 MONTH 21-22 3 MONTH 21-22 3 MONTH23-24 15 DAY 23-24 15 DAY 23-24 15 DAY25-26 3 HOUR (NEAREST) 25-26 3 HOUR (NEAREST) 25-26 3 HOUR (NEAREST)27 P TIME OF DAY (A,P,M.) 27 P TIME OF DAY (A,P,M.) 27 P TIME OF DAY (A,P,M.)28-30 --- WATER TEMPERATURE (DEG. F.) 28-30 --- WATER TEMPERATURE (DEG. F.) 28-30 --- WATER TEMPERATURE (DEG. F.)31-33 --- FIELD D.O. 31-33 --- FIELD D.O. 31-33 --- FIELD D.O.TOTAL PHOSPHORUS 1.9 TOTAL PHOSPHORUS 1.9 TOTAL PHOSPHORUS 1.9AVG. BOD 1.9 AVG. BOD 1.9 AVG. BOD 1.9C.O.D. --- C.O.D. --- C.O.D. ---PHENOLS --- PHENOLS --- PHENOLS ---AMMONIA N --- AMMONIA N --- AMMONIA N ---NITRATE + NITRITE AS N --- NITRATE + NITRITE AS N --- NITRATE + NITRITE AS N ---ORGANIC N --- ORGANIC N --- ORGANIC N ---TOTAL N --- TOTAL N --- TOTAL N ---F.D.S./E.C. --- F.D.S./E.C. --- F.D.S./E.C. ---TOTAL SUSP. SOLIDS 3 TOTAL SUSP. SOLIDS 3 TOTAL SUSP. SOLIDS 3TOTAL SUSP. SOLIDS --- TOTAL SUSP. SOLIDS --- TOTAL SUSP. SOLIDS ---TOTAL SUSP. SOLIDS --- TOTAL SUSP. SOLIDS --- TOTAL SUSP. SOLIDS ---TOTAL SUSP. SOLIDS --- TOTAL SUSP. SOLIDS --- TOTAL SUSP. SOLIDS ---TOTAL SUSP. SOLIDS --- TOTAL SUSP. SOLIDS --- TOTAL SUSP. SOLIDS ---TOTAL SUSP. SOLIDS --- TOTAL SUSP. SOLIDS --- TOTAL SUSP. SOLIDS ---TOTAL SUSP. SOLIDS --- TOTAL SUSP. SOLIDS --- TOTAL SUSP. SOLIDS ---TOTAL SUSP. SOLIDS --- TOTAL SUSP. SOLIDS --- TOTAL SUSP. SOLIDS ---TOTAL SUSP. SOLIDS --- TOTAL SUSP. SOLIDS --- TOTAL SUSP. SOLIDS ---TOTAL SUSP. SOLIDS --- TOTAL SUSP. SOLIDS --- TOTAL SUSP. SOLIDS ---TOTAL SUSP. SOLIDS --- TOTAL SUSP. SOLIDS --- TOTAL SUSP. SOLIDS ---ARSENIC --- ARSENIC --- ARSENIC ---
BARIUM --- BARIUM --- BARIUM ---
BORON --- BORON --- BORON ---
CADMIUM --- CADMIUM --- CADMIUM ---
CHROMIUM (HEX) 0.04 CHROMIUM (HEX) 0.04 CHROMIUM (HEX) 0.04
CHROMIUM (TRH) 0.00 CHROMIUM (TRH) 0.00 CHROMIUM (TRH) 0.00
CHROMIUM (TOTAL) 0.04 CHROMIUM (TOTAL) 0.04 CHROMIUM (TOTAL) 0.04
COPPER 0.01 COPPER 0.01 COPPER 0.01
CYANIDE --- CYANIDE --- CYANIDE ---
IRON (TOTAL) --- IRON (TOTAL) --- IRON (TOTAL) ---
IRON (DISSOLVED) --- IRON (DISSOLVED) --- IRON (DISSOLVED) ---
LEAD --- LEAD --- LEAD ---
MANGANESE --- MANGANESE --- MANGANESE ---
MERCURY (MICROGM/L) --- MERCURY (MICROGM/L) --- MERCURY (MICROGM/L) ---
NICKEL 0.4 NICKEL 0.4 NICKEL 0.4
SELENIUM --- SELENIUM --- SELENIUM ---
SILVER --- SILVER --- SILVER ---
ZINC 0.0 ZINC 0.0 ZINC 0.0PLANKTON (NO./ML) --- PLANKTON (NO./ML) --- PLANKTON (NO./ML) ---
FLUORIDE --- FLUORIDE --- FLUORIDE ---
CHLORIDE --- CHLORIDE --- CHLORIDE ---
SULFATE AS SO4 --- SULFATE AS SO4 --- SULFATE AS SO4 ---
TOTAL SULFUR AS S --- TOTAL SULFUR AS S --- TOTAL SULFUR AS S ---
OIL --- OIL --- OIL ---
N.B.A.S. --- N.B.A.S. --- N.B.A.S. ---
CARBON CHLOROFORM EXTRACT --- CARBON CHLOROFORM EXTRACT --- CARBON CHLOROFORM EXTRACT ---
TURBIDITY (UNITS) --- TURBIDITY (UNITS) --- TURBIDITY (UNITS) ---
RESIDUE ON EVAPORATION --- RESIDUE ON EVAPORATION --- RESIDUE ON EVAPORATION ---
VOLATILE SUSP. SOLIDS --- VOLATILE SUSP. SOLIDS --- VOLATILE SUSP. SOLIDS ---
COLOR (UNITS) --- COLOR (UNITS) --- COLOR (UNITS) ---
HARDNESS --- HARDNESS --- HARDNESS ---
ALKALINITY --- ALKALINITY --- ALKALINITY ---
TOTAL ACIDITY --- TOTAL ACIDITY --- TOTAL ACIDITY ---
FREE ACIDITY --- FREE ACIDITY --- FREE ACIDITY ---
OTHER TESTS REQUIRED --- OTHER TESTS REQUIRED --- OTHER TESTS REQUIRED ---

ALL RESULTS EXPRESSED AS MG/L EXCEPT WHERE OTHERWISE STATED.

PHYSICAL OBSERVATIONS & COMMENTS (ABNORMAL COLOR, ODOR, FLOATING MATTER, OIL, SLUDGE, TURBIDITY, WEATHER), LOCATION OF SAMPLING POINT:

350 GPM (ESTIMATED)

FOR LABORATORY USE ONLY

SAMPLE RECEIVED BY J. RauvoriDATE REC'D 2-16-83 TIME REC'D 10:50DATE ANALYSES COMPLETED FEB. 23, 1983DATE RESULTS FORWARDED ---TOTAL TESTS REQUESTED --- TESTS RUN ---LAB SECTION Chicago SUPERVISOR ---

SIGN BELOW FOR EFFLUENT SAMPLE

TRANSPORTED BY J. RauvoriRECEIVED BY --- TIME ---TRANSPORTED BY ---